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L1: Entry 1 of 1

File: USPT

Jan 20, 2004

US-PAT-NO: 6680694

DOCUMENT-IDENTIFIER: US 6680694 B1

TITLE: Vehicle information system

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knockeart; Ronald P.	Clarkston	MI		
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Brown; Steven	Sterling Heights	MI		
Asher; Harry	Garden City	MI		
Jozefowicz; Paul A.	Roseville	MI		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
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APPL-NO: 09/136868 [PALM]

DATE FILED: August 19, 1998

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application claims the benefit of U.S. Provisional Application No. 60/056,150, filed Aug. 19, 1997.

INT-CL: [07] G01 S 5/02, H04 B 7/185

US-CL-ISSUED: 342/357.09; 342/357.1, 701/209, 701/210

US-CL-CURRENT: 342/357.09; 342/357.1, 701/209, 701/210

FIELD-OF-SEARCH: 342/357.02, 342/357.14, 342/457, 342/357.13, 701/209, 701/210, 701/214, 701/216

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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<input type="checkbox"/>	<u>5072395</u>	December 1991	Bliss et al.	364/443
<input type="checkbox"/>	<u>5243528</u>	September 1993	Lefebvre	340/988
<input type="checkbox"/>	<u>5334986</u>	August 1994	Ferhout	342/357
<input type="checkbox"/>	<u>5364093</u>	November 1994	Huston et al.	
<input type="checkbox"/>	<u>5394333</u>	February 1995	Kao	340/990
<input type="checkbox"/>	<u>5539645</u>	July 1996	Mandhyan et al.	364/438
<input type="checkbox"/>	<u>5563607</u>	October 1996	Loomis et al.	342/357
<input type="checkbox"/>	<u>5598534</u>	January 1997	Haas	395/200.9
<input type="checkbox"/>	<u>5604676</u>	February 1997	Penzias	
<input type="checkbox"/>	<u>5802492</u>	September 1998	DeLorme et al.	701/200
<input type="checkbox"/>	<u>5955973</u>	September 1999	Anderson	340/988
<input type="checkbox"/>	<u>5987381</u>	November 1999	Oshizawa	701/209
<input type="checkbox"/>	<u>6028537</u>	February 2000	Suman et al.	340/988
<input type="checkbox"/>	<u>6073075</u>	June 2000	Kondou et al.	701/203
<input type="checkbox"/>	<u>6104338</u>	August 2000	Krasner	342/357.06
<input type="checkbox"/>	<u>6169515</u>	January 2001	Mannings et al.	342/357.1
<input type="checkbox"/>	<u>6324472</u>	November 2001	O'Shea	701/211

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
41 39 581	June 1993	DE	
43 00 927	July 1994	DE	
0 349 652	January 1990	EP	
0 354 684	February 1990	EP	
0 786 646	July 1997	EP	
96/00373	January 1996	WO	
96/21193	July 1996	WO	

ART-UNIT: 3662

PRIMARY-EXAMINER: Blum; Theodore M.

ABSTRACT:

A vehicle information system which includes an in-vehicle system 105 and a centralized server system 120. The in-vehicle system communicates with the server system using a wireless communication link 110, such as over a cellular telephone system. A position system, such as a set of GPS satellites 140, provides positioning signals that are used by the in-vehicle systems, and optionally by the centralized server system to increase the accuracy of position estimates. In one version of the system, an operator specifies a destination to an in-vehicle system which validates the destination. The in-vehicle system transmits specification of

the destination to a server system 125 at the centralized server. The server system computes a route to the destination and transmits the computed route to the in-vehicle system. The in-vehicle system guides the operator along the route. If the in-vehicle system detects that the vehicle has deviated from the planned route, it replans a new route to the destination using an in-vehicle map database.

25 Claims, 31 Drawing figures

[Previous Doc](#)

[Next Doc](#)

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 **PALM INTRANET****Application Number Information**Application Number: **10/134457** [Order This File Assignments](#)Examiner Number: **73675 / CORRIELUS, JEAN**Filing or 371(c) Date: **04/30/2002**Group Art Unit: **2172**Effective Date: **04/30/2002**Class/Subclass: **707/010.000**Application Received: **04/30/2002**Lost Case: **NO**Pat. Num./Pub. Num: **6751609/20020129020**

Interference Number:

Issue Date: **06/15/2004**Unmatched Petition: **NO**Date of Abandonment: **00/00/0000**[L&R Code](#): Secrecy Code:1Attorney Docket Number: **1420-43996CO**Third Level Review: **NO**Secrecy Order: **NO**Status: **150 /PATENTED CASE**Status Date: **05/27/2004**Confirmation Number: **4139**Oral Hearing: **NO**Title of Invention: **MAP DATABASE APPARATUS**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
10134457	9200	01/12/2005	No Charge to Location	No Charge to Name	GLOVER,EBENEZER	

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 **PALM INTRANET****Application Number Information**Application Number: **10/003551** [Order This File Assignments](#)Examiner Number: **76219 / LEWIS, TISHA**Filing or 371(c) Date: **10/24/2001**Group Art Unit: **3681**Effective Date: **10/24/2001**Class/Subclass: **475/207.000**Application Received: **12/06/2001**Lost Case: **NO**Pat. Num./Pub. Num: **6488605/20020055407**

Interference Number:

Issue Date: **12/03/2002**Unmatched Petition: **NO**Date of Abandonment: **00/00/0000**L&R Code: Secrecy Code:1Attorney Docket Number: **VAND6**Third Level Review: **NO**Secrecy Order: **NO**Status: **150 /PATENTED CASE**Status Date: **11/14/2002**Confirmation Number: **5013**Oral Hearing: **NO**Title of Invention: **TRANSMISSION SYSTEM, ESPECIALLY FOR A MOTOR VEHICLE**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
<u>10003551</u>	<u>9200</u>	12/02/2002	No Charge to Location	No Charge to Name	<u>WILLIAMS,NATASHA</u>	

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